PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference A3-267PCT	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2004/002818	International filing date (day/month/year) 29 January 2004 (29.01.2004)	Priority date (day/month/year) 30 January 2003 (30.01.2003)]			
International Patent Classification (IPC) or national classification and IPC 7 H01R 12/16					
Applicant MOLEX INCORPORATED					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).					
2.	This REPORT consists of a total	of 6 sheets, including this cov	ver sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications i	elating to the following items	:			
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI Certain documents cited					
	Box No. VII Certain defects in the international application					
	Box No. VIII Certain observations on the international application					
4.			gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but or Article 23(2), before the expiration of 30 months from the priority			
			Date of issuance of this report 05 August 2005 (05.08.2005)			
•	The International Bureau of WIPO Authorized officer					
34, chemin des Colombettes 1211 Geneva 20, Switzerland			Simin Baharlou			

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Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004) PATENT COOPERATION TREATY

RECEIVED From the INTERNATIONAL SEARCHING AUTHORITY 29 JUL 2004 To: PCT WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2004/002818 29.01.2004 30.01.2003 International Patent Classification (IPC) or both national classification and IPC H01R12/16 Applicant MOLEX INCORPORATED This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Box No. VII Certain defects In the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bls(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

<u>a</u>))

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/US2004/002818

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_	Bo	x No.	Basis of the opinion		
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.				
		rangu	opinion has been established on the basis of a translation from the original language into the following tage , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).		
2.	Witl nec	h rega essary	rd to any nucleotide and/or amino acid sequence disclosed in the international application and v to the claimed invention, this opinion has been established on the basis of:		
a. type of material:					
	[⊐ a∶	sequence listing		
	[□ tal	ple(s) related to the sequence listing		
b. format of material:					
		□ in	written format		
] in	computer readable form		
c. time of filing/furnishing:					
		□ со	ntained in the international application as filed.		
] file	ed together with the international application in computer readable form.		
] fur	nished subsequently to this Authority for the purposes of search.		
3.		copies	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto sen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.		
4.	Addi	itional	comments:		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/US2004/002818

В	ox No. II	Priority						
1. 🛭	☐ The following document has not been furnished:							
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).							
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).							
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
2. 🗆	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3. Additional observations, if necessary:								
						•		
	N- V							
	ox No. V dustrial a	Reasoned state applicability; citati	ment und ons and e	er Rule 43 explanatio	bis.1(a)(i) with ns supporting	th regard to nove g such statemen	elty, inventive s ıt	itep or
. St	Statement							
No	ovelty (N)		Yes: No:	Claims Claims	1-15			
lnv	ventive st	ep (IS)	Yes: No:	Claims Claims	1-15			
Inc	dustrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-15	· ·		
. Cit	tations an	nd explanations						
se	e separa	te sheet						
		·						
				•				
Во	x No. VII	Certain defects	in the int	ernational	application			
he fo	ollowing d	efects in the form o	r contents	of the inte	rnational appl	ication have been	noted:	
	e separat	_						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/US2004/002818

Re Item V.

1 The following document is referred to in this communication:

D1: WO 03/005489 A (HIRATA HIDEYUKI; HIRAYAMA TAKAAKI (JP); MOLEX INC (US)) 16 January 2003 (2003-01-16)

Document D1, which is considered to represent the most relevant state of the art, discloses:

A ZIF electrical connector comprising an insulative housing with a cover which is moveable between a first position and a second position. The cover is slideably assembled to the base of the housing and defines a plurality of through holes corresponding to terminal receiving cavities. A drive means in the form of a lever is extending from the housing.

From this, the subject-matter of independent claim 1 differs in that: the base defines a recess portion slant with the first direction of moving the cover. A slider is moving in the recess portion having a body portion which is moved by the drive means along a direction slant with the first direction.

- 2.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)

 The problem to be solved by the present invention may be regarded as: how to improve the workability of a ZIF connector.
- 2.2 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: the base defines a recess portion slant with the first direction of moving the cover. A slider is moving in the recess portion having a body portion which is moved by the drive means along a direction slant with the first direction. The mechanism of a ZIF connector is thereby improved. None of the cited documents discloses such a solution.
- 2.3 Claims 2-15 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/002818

Re Item VII.

The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).